

LIST OF CONTENTS

NUMBER 1

EDITORIAL	I
EDITORIAL NOTE	III
INSTRUCTIONS TO CONTRIBUTORS	V
S. WATANABE and C. DAWES	The effects of different foods and concentrations of citric acid on the flow rate of whole saliva in man 1
A. L. J. J. BRONCKERS, D. M. LYARUU, TH. J. M. BEROETS and J. H. M. WÖLTGENS	Autoradiographic, ultrastructural and biosynthetic study of the effect of colchicine on enamel matrix secretion and enamel mineralization in hamster tooth germs <i>in vitro</i> 7
MARITA LUOMANEN, V.-P. LEHTO and J. H. MEURMAN	Myofibroblasts in healing laser wounds of rat tongue mucosa 17
J. M. MEYER, A. STAUBLI and J. V. RUCH	Ultrastructural duality of extracellular fibrillar components of the odontoblast layer in the mouse molar 25
A. S. AALTONEN, J. TENOVUO and O.-P. LEHTONEN	Antibodies to the oral bacterium <i>Streptococcus mutans</i> and the development of caries in children in relation to maternal dental treatment during pregnancy 33
H. W. VAN DER GLAS and D. VAN STEENBERGHE	Bilateral post-stimulus electromyographic complexes in human masseter muscles after stimulation of periodontal mechanoreceptors of bi- and unilaterally-innervated teeth 41
R. W. A. LINDEN and B. J. MILLAR	The response characteristics of mechanoreceptors related to their position in the cat canine periodontal ligament 51
R. COUWENHOVEN and S. A. SCHWARTZ	Developmental-specific expression and immunoreactivity of keratins during odontogenesis in rat embryos 57
B. ÅSMAN, O. EKBERG and A. HJERPE	Collagen degradation by experimentally-induced subcutaneous granulation tissue in the rat 65
Short Communication	
M. SASHIMA, S. HATAKEYAMA, M. SATOH and A. SUZUKI	Age-related changes of the granular intercalated duct cells of male rat submandibular gland 71
	Current Papers in Oral Biology (35558-35661) i

NUMBER 2

I. SASAGAWA	The appearance of matrix vesicles and mineralization during tooth development in three teleost fishes with well-developed enameloid and orthodontine 75
T. SATOH, S. YAMADA, T. OHSHIMA, T. YOKOTA and S. KITAYAMA	Potassium-ion activity in the trigeminal central nervous complex during tooth pulp-evoked slow mass potentials 87
R. M. FRANK and P. STEUER	Transmission electron microscopy of the human odontoblast process in peripheral root dentine 91
D. H. T. K. TEWSON, JOAN K. HEATH and M. C. MEIKLE	Biochemical and autoradiographical evidence that anterior mandibular displacement in the young growing rat does not stimulate cell proliferation or matrix formation at the mandibular condyle 99
M. D. P. WILLCOX, D. B. DRUCKER and V. F. HILLIER	<i>In-vitro</i> adherence of oral streptococci in the presence of sucrose and its relationship to cariogenicity in the rat 109
ELENI E. KOUSVELARI, D. K. BANERJEE, S. R. GRANT and B. J. BAUM	Modulation of oligosaccharide processing in an exocrine secretory glycoprotein of rat parotid cells by β -adrenoreceptor activation 115

F. J. GRUNDBACHER	Variation in levels of immunoglobulins A, G and E in human saliva	121
L. S. CUTLER, CONSTANCE P. CHRISTIAN and B. BOTTARO	Effects of chemical sympathectomy on postnatal development of the rat submandibular gland	127
D. D. PEKOVIC, V. W. ADAMKIEWICZ and M. GORNITSKY	Immunoglobulins in human dental caries	135
	Current Papers in Oral Biology (35662-35765)	vii

NUMBER 3

EDITORIAL

N. W. KERR, M. F. BRUCE and J. F. CROSS	Caries experience in the permanent dentition of late Mediaeval Scots (1300-1600 A.D.)	I 143
J. LUTHMAN, O. JOHANSSON, U. AHLSTRÖM and S. KVINT	Immunohistochemical studies of the neurochemical markers, CGRP, enkephalin, galanin, γ -MSH, NPY, PHI, proctolin, PTH, somato- statin, SP, VIP, tyrosine hydroxylase and neurofilament in nerves and cells of the human attached gingiva	149
C. ROBINSON, J. KIRKHAM and A. S. HALLSWORTH	Volume distribution and concentration of protein, mineral and water in developing bovine enamel	159
P. W. NGAN, B. CROCK, J. VARGHESE, R. LANESE, J. SHANFELD and Z. DAVIDOVITCH	Immunohistochemical assessment of the effect of chemical and mech- anical stimuli on cAMP and prostaglandin E levels in human gingival fibroblasts <i>in vitro</i>	163
C. S. STOHLER, J. A. ASHTON-MILLER and D. S. CARLSON	The effects of pain from the mandibular joint and muscles on masticatory motor behaviour in man	175
Z. S. M. ALBASHAIREH and R. ORCHARDSON	Comparison of the human perception of hole size by the tongue and the fingers	183
S. KILIARIDES, C. ENGSTRÖM and BIRGIT THILANDER	Histochemical analysis of masticatory muscle in the growing rat after prolonged alteration in the consistency of the diet	187
D. K. MILLS, J. C. DANIEL and R. SCAPINO	Histological features and <i>in-vitro</i> proteoglycan synthesis in the rabbit craniomandibular joint disc	195
J. R. MARTINEZ, JEAN CAMDEN and MARY B. KINGSBURY	Effects of acetylcholine and transport inhibitors on K content in dispersed submandibular salivary cells of newborn and adult rats	203
K. E. BYRD	Opto-electronic analyses of masticatory mandibular movements and velocities in the rat	209
	Current Papers in Oral Biology (35766-35868)	xiii

NUMBER 4

RITA SORVARI and I. KIVIRANTA	A semiquantitative method of recording experimental tooth erosion and estimating occlusal wear in the rat	217
M. W. HILL	Influence of age on the morphology and transit time of murine stratified squamous epithelia	221
Y. TAKANO, S. MATSUO, S. WAKISAKA, H. ICHIKAWA, S. NISHIKAWA and M. AKAI	Cyclic changes in the properties of maturing enamel in the bovine permanent incisor as revealed by glyoxal bis(2-hydroxyanil) staining	231
D. RICHARDS and R. B. RUTHERFORD	The effects of interleukin 1 on collagenolytic activity and prosta- glandin-E secretion by human periodontal-ligament and gingival fibroblast	237
R. K. MCBRIDE and I. A. SIEGEL	Effect of methotrexate on protein and amylase secretion by rat parotid and submandibular salivary glands	245
N. MATSUMOTO, T. SATO, M. OOE and T. A. SUZUKI	The projection pathway from the tooth pulp to the ipsilateral first somatosensory cortex (SI) in the cat	251

H. NAKAGAKI, K. KAWAI, T. MURAKAMI, Y. SAKAKIBARA, N. OHNO, J. A. WEATHERELL and C. ROBINSON	Fluoride distribution and histological structure of human cementum	257
D. H. PASHLEY, L. TAO, L. BOYD, G. E. KING and J. A. HORNER	Scanning electron microscopy of the substructure of smear layers in human dentine	265
K. KYRIACOU, J. R. GARRETT and P. GJØRSTRUP	Structural and functional studies of the effects of sympathetic nerve stimulation on rabbit submandibular salivary glands	271
K. KYRIACOU and J. R. GARRETT	Morphological changes in the rabbit submandibular gland after parasympathetic or sympathetic denervation	281
	Current Papers in Oral Biology (35869-36076)	xix
	Errata	I

NUMBER 5

J. VARRELA, G. TOWNSEND and L. ALVESALO	Tooth crown size in human females with 45,X/46,XX chromosomes	291
S. Q. ALAM and B. S. ALAM	<i>In-vivo</i> incorporation of $\omega 3$ fatty acids into membrane lipids of rat salivary glands and changes in adenylate-cyclase activity	295
D. C. A. PICTON	The effect on intrusive tooth mobility of surgically removing the cervical periodontal ligament in monkeys (<i>Macaca fascicularis</i>)	301
S. KIM, J. DORSCHER-KIM, M.-T. LIU and H. O. TROWBRIDGE	Biphasic pulp blood-flow response to substance P in the dog as measured with a radiolabelled, microsphere injection method	305
M. HIRAFUJI and Y. OGURA	The effects of colchicine on prostaglandin I_2 and thromboxane A_2 biosynthesis in the rat dental pulp	311
R. A. LINDEMANN and N.-H. PARK	Inhibition of human lymphokine-activated killer activity by smokeless tobacco (snuff) extract	317
J. W. SMALLEY, A. J. BIRSS and C. A. SHUTTLEWORTH	The degradation of type I collagen and human plasma fibronectin by the trypsin-like enzyme and extracellular membrane vesicles of <i>Bacteroides gingivalis</i> W50	323
A. J. THEXTON and J. D. MCGARRICK	Tongue movement of the cat during lapping	331
ELENI E. KOUSVELARI, J. E. CIARDI and MARY R. BOWERS	Altered bacterial aggregation and adherence associated with changes in rat parotid-gland salivary proteins induced <i>in vivo</i> by β -adrenergic stimulation	341
A. R. SHAHED and D. W. ALLMANN	Stimulation of mucin release from rat submandibular salivary-gland cells by NaF	347
M. SOORIYAMOORTHY, W. HARVEY and D. B. GOWER	The use of human gingival fibroblasts in culture for studying the effects of phenytoin on testosterone metabolism	353
GRACE SUCKLING, D. C. THURLEY and D. G. A. NELSON	The macroscopic and scanning electron-microscopic appearance and microhardness of the enamel, and the related histological changes in the enamel organ of erupting sheep incisors resulting from a prolonged low daily dose of fluoride	361
Short Communications E. R. VAN DER GRAAF and J. J. TEN BOSCH	A theoretical model for the hydraulic conductance of human dentine	375
J. APPLETON	The ultrastructural distribution of proteoglycans in normal and rachitic growth cartilage from the mandibular condyle of the rat	379
	Current Papers in Oral Biology (36077-36180)	xxxii

NUMBER 6

	INSTRUCTIONS TO CONTRIBUTORS	I
A. E. W. MILES	40th Anniversary Year of Pergamon Press. An advance in knowledge is not achieved until it is published	V
IRMA THESLEFF, T. KANTOMAA, ELEANOR MACKIE and RUTH CHIQUET-EHRISMANN	Immunohistochemical localization of the matrix glycoprotein tenascin in the skull of the growing rat	383
M. MARKLUND and M. PERSSON	The relationship between mandibular morphology and apical root curvature in man	391
J. D. HILLMAN and M. SHIVERS	Interaction between wild-type, mutant and revertant forms of the bacterium <i>Streptococcus sanguis</i> and the bacterium <i>Actinobacillus actinomycetemcomitans</i> in vitro and in the gnotobiotic rat	395
T. IKENO, K. IKENO and T. UNO	Relationship between serum-amylase activity and intraductal pressures in the rat parotid and submandibular salivary glands after administration of pilocarpine or isoprenaline	403
I. CONDACCI, G. CIMASONI, M. REY and P. BAEHNI	<i>In-vitro</i> synthesis of α_2 -macroglobulin by human gingival fibroblasts	407
M. D. MCKEE, L. WEDLICH, J. R. POMPUA, A. NANJI, C. E. SMITH and H. WARSHAWSKY	Demonstration by staining and radioautography of cyclical distributions of protein at the enamel surface in rat incisors	413
SHIPRA SENGUPTA, I. B. LAMSTER, A. KHOCHT, TARA A. DUFFY and J. M. GORDON	The effect of treatment on IgG, IgA, IgM and α -2-macroglobulin in gingival crevicular fluid from patients with chronic adult periodontitis	425
S. MATSUO, Y. TAKANO, S. WAKISAKA, H. ICHIKAWA, S. NISHIKAWA, T. ITOTAGAWA and M. AKAI	Cytochemical study of the Golgi apparatus and related organelles of the secretory ameloblasts of rat molar tooth germs cultured with and without colchicine	433
MARY S. TYLER	Development of osteogenic and chondrogenic potentials along the mediolateral axis of the embryonic chick mandible	443
Short Communications		
J. P. SHAW	A quantitative comparison of osteoclasts in the teeth of the anuran amphibian <i>Xenopus laevis</i>	451
R. I. MACLEOD and J. V. SOAMES	A morphometric study of age changes in the human lingual artery	455
T. KAGE, M. MOGI, Y. KATSUMATA, T. YAMADA and T. CHINO	Lung and cervical lymph-node metastasis after cortisone enhancement in hamster cheek-pouch carcinogenesis	459
	Current Papers in Oral Biology (36181-36387)	xxxvii

NUMBER 7

DORTHEA A. JOHNSON	Changes in rat parotid saliva protein composition following chronic reserpine treatment and their relation to inanition	463
S. KILIARIDIS and B. C. SHYU	Isometric muscle tension generated by masseter stimulation after prolonged alteration of the consistency of the diet fed to growing rats	467
R. F. WILSON and F. P. ASHLEY	Collection and biochemical analysis of human dental plaque from the approximal tooth surfaces and comparison with plaque from free smooth surfaces	473
H. ISOGAI, E. ISOGAI, F. YOSHIMURA, T. SUZUKI, W. KAGOTA and K. TAKANO	Specific inhibition of adherence of an oral strain of <i>Bacteroides gingivalis</i> 381 to epithelial cells by monoclonal antibodies against the bacterial fimbriae	479
C. M. CAREY, T. M. GREGORY, A. TATEVOSSIAN and G. L. VOGEL	The buffer capacity of single-site, resting, human dental-plaque fluid	487

C. M. CAREY, L. C. CHOW, A. TATEVOSSIAN and G. L. VOGEL	Extracellular potassium concentrations in human dental plaque fluid recovered from single sites	493
H. W. KAUFMAN, J. J. POLLOCK and A. J. GWINNETT	Microbial caries induction in the roots of human teeth <i>in vitro</i>	499
J. R. MARTINEZ, NANCY CASSITY and PAULA REED	Effects of isoproterenol on Cl transport in rat submandibular salivary-gland acini	505
P. J. W. JÜCH, C. A. M. OOMEN and J. D. VAN WILLIGEN	The effect of infrahyoid-muscle tenotomy on orofacial motor activity in the rat	511
K. IZUTSU, W. ENSIGN, BONNIE RAMSEY, M. SCHUBERT, BARBARA ALLAN and E. TRUELOVE	Autonomic regulation of potassium release from human labial salivary glands <i>in vitro</i>	519
M. T. PERRA, P. PUXEDDU and P. SIRIGU	A histochemical study of the main excretory duct of the human submandibular gland	525
Short Communication		
A. LUSSI, R. A. FRIDELL, M. A. CRENSHAW and J. W. BAWDEN	Absence of <i>in-vitro</i> fluoride-binding by the organic matrix of developing bovine enamel	531

NUMBER 8

M. SEKIKAWA, E. KANAZAWA, T. OZAKI and T. BROWN	Principal component analysis of intercuspal distances on the lower first molars of three human populations	535
K. TRAUTNER and J. EINWAG	Human plasma fluoride levels following intake of dentifrices containing aminefluoride or monofluorophosphate	543
J. W. SMALLEY, A. J. BIRSS and C. A. SHUTTLEWORTH	The effect of the outer membrane fraction of <i>Bacteroides gingivalis</i> W50 on glycosaminoglycan metabolism by human gingival fibroblasts in culture	547
S. ANAMURA, T. DOHI, M. SHIRAKAWA, H. OKAMOTO and A. TSUJIMOTO	Effects of phenolic dental medicaments on prostaglandin synthesis by microsomes of bovine tooth pulp and rabbit kidney medulla	555
A. A. MONTEIRO and S. KOPP	Estimation of blood flow by ¹³³ Xe clearance in human masseter muscle during rest, endurance of isometric contraction, and recovery	561
R. P. SANTARPIA III, E. C. BRANT, K. LAL, M. M. BRASSEUR, A. L. HONG and J. J. POLLOCK	A comparison of the inhibition of blastospore viability and germ-tube development in <i>Candida albicans</i> by histidine peptides and ketoconazole	567
R. K. MCBRIDE and I. A. SIEGEL	The influence of plasma catecholamines on methotrexate-enhanced rat salivary gland protein secretion	575
C. H. SISSONS and T. W. CUTRESS	pH changes during simultaneous metabolism of urea and carbohydrate by human salivary bacteria <i>in vitro</i>	579
H. A. WATERMAN, C. BLOM, H. J. HOLTERMAN, E. J. 'S-GRAVENMADE and J. MELLEMA	Rheological properties of human saliva	589
D. STRÖM, S. HOLM, ELISABET CLEMENSSON, T. HARALDSON and G. E. CARLSSON	Gross anatomy of the craniomandibular joint and masticatory muscles of the dog	597
MARIA DO CARMO P. TSE, MIRIAM C. BOAVENTURA, G. D. FERNANDES and J. MERZEL	The effects of cerebral hemidecortication on the eruption rate and uptake of [³ H]-glycine by the periodontal ligament of the rat incisor	605
Short Communications		
K. IKENO, S. SAIKATSU, T. UNO and T. IKENO	Effects of prolonged duct ligation of the rat salivary glands on the activity of trypsin-like protease	613
Y. HAGIHARA, H. KAMINISHI, T. CHO, M. TANAKA and H. KAITA	Degradation of human dentine collagen by an enzyme produced by the yeast <i>Candida albicans</i>	617

J. R. MARTINEZ and SHERYLL BARKER	Contrasting effects of autonomic agents and prostaglandins on ^{22}Na uptake in rat submandibular salivary acini	621
	Current Papers in Oral Biology (36388-36491)	xlix

NUMBER 9

G. SMITH, A. J. SMITH and R. M. BROWNE	Quantification and analysis of the glycosaminoglycans in human odontogenic cyst linings	623
S. R. GROBLER and J. J. DE V. JOUBERT	The relative distribution of fluoride in erupted and unerupted enamel of human third molars from a low fluoride area	627
G. J. GRAHAM and J. S. RENNIE	A cross-sectional study of the effects of alcohol on the protein profile of rat lingual epithelium	631
K. E. BYRD and Y. CHAI	Three-dimensional movement analysis of lateral pterygoid electromyographic activity during mastication in the rat	635
JOYCE W. JENZANO, J. C. COFFEY, W. D. HEIZER, R. L. LUNDBLAD and A. G. SCICLI	The assay of glandular kallikrein and prekallikrein in human mixed saliva	641
S.-Y. CHEN	Studies on cell migration, adenylate cyclase and membrane-coating granules in the buccal epithelium of the zinc-deficient rabbit, including the influence of isoproterenol	645
K. KATO, H. NAKAGAKI, Y. SAKAKIBARA, Y. KAMEYAMA, J. A. WEATHERELL and C. ROBINSON	Distribution of fluoride in the enamel of rat incisors examined by an abrasive microsampling technique	653
K. KATO, H. NAKAGAKI, Y. SAKAKIBARA, J. A. WEATHERELL and C. ROBINSON	The dissolution rate of enamel in acid in developing rat incisors	657
R. A. BURN-MURDOCH	The effect of corticosteroids and cyclophosphamide on the eruption of resected incisor teeth in the rat	661
A. SLOMIANY, V. L. N. MURTY, Y. H. LIAU, S. R. CARTER and B. L. SLOMIANY	Enzymatic sulphation of mucus glycoprotein in rat sublingual salivary gland	669
D. H. MALLONEE, C. E. HARVEY, M. VENNEN and B. F. HAMMOND	Bacteriology of periodontal disease in the cat	677
A. LUSSI, M. A. CRENSHAW and A. LINDE	Induction and inhibition of hydroxyapatite formation by rat dentine phosphoprotein <i>in vitro</i>	685
Short Communication SHUJI MEZAWA, KOICHI IWATA, KIMISATO NAITO and HIROYUKI KAMOGAWA	The possible analgesic effect of soft-laser irradiation on heat nociceptors in the cat tongue	693

NUMBER 10

CHARLOTTE M. BRACK and E. C. REYNOLDS	Colonization of rat molar teeth by mutans streptococci with different salivary agglutination characteristics	695
R. L. SPEIRS, A. STANFORTH and G. SITTAMPALAM	Subjective assessment of liquid volumes by humans during swallowing	701
T. SAKAE	X-ray diffraction and thermal studies of crystals from the outer and inner layers of human dental enamel	707
R. W. A. LINDEN and B. J. MULLAR	The effect of rate of force application on the threshold of periodontal ligament mechanoreceptors in the cat canine tooth	715
C. H. SISSONS, E. M. HANCOCK and T. W. CUTRESS	The source of variation in ureolysis in artificial plaques cultured from human salivary bacteria	721

C. H. Sissons, E. M. HANCOCK, H. E. R. PERINPANAYAGAM and T. W. CUTRESS	The bacteria responsible for ureolysis in artificial dental plaque	727
D. TZIAPAS, S. AMAR, A. STAUBLI, J. M. MEYER and J. V. RUCH	Effects of glycosaminoglycans on <i>in vitro</i> mouse dental cells	735
J. G. BROTON and B. J. SESSLE	Reflex excitation of masticatory muscles induced by algescic chemicals applied to the temporomandibular joint of the cat	741
JEANNE RODDE and P. MEIN	Scanning electron microscopy of molar enamel structure of cricetodontine Neogene rodents	749
S. WATANABE and C. DAWES	A comparison of the effects of tasting and chewing foods on the flow rate of whole saliva in man	761
Short Communications		
A. K. SUSHEELA, KAMAL SHARMA, B. P. RAJAN and N. GNANASUNDARAM	The status of sulphated isomers of glycosaminoglycans in fluorosed human teeth	765
R. M. SHAH and M. W. J. FERGUSON	Histological evidence of fusion between the posterior palatal shelves and the floor of the mouth in <i>Alligator mississippiensis</i>	769

NUMBER 11

S. MEGHJI, J. R. SANDY, A. M. SCUTT, W. HARVEY and M. HARRIS	Heterogeneity of bone resorbing factors produced by unstimulated murine osteoblasts <i>in vitro</i> and in response to stimulation by parathyroid hormone and mononuclear cell factors	773
Y.-F. REN, S. N. AHMAD, B. S. ALAM and S. Q. ALAM	[³ H]-forskolin binding sites in rat submandibular salivary glands	779
K. KOMATSU	<i>In vitro</i> mechanics of the periodontal ligament in impeded and unimpeded rat mandibular incisors	783
T. W. HURLEY and M. P. RYAN	The control of cytosolic Ca ²⁺ concentration: studies of high affinity Ca ²⁺ transport in permeabilized acini of rat submandibular glands	793
DANIEL MALAMUD, CAROL M. CHRISTENSEN, MAHVASH NAVAZESH and CHERYL DAVIS	Bacterial agglutinin activity in the saliva of human identical and fraternal twins	801
A. SLOMIANY, K. MIZUTA, G. ZALESNA, H. TSUKADA and B. L. SLOMIANY	Co-translational processing and intracellular transport of rat salivary mucus glycoprotein	807
T. M. G. J. VAN EIJDEN, E. M. KLOK, W. A. WEIJS and J. H. KOOLSTRA	Mechanical capabilities of the human jaw muscles studied with a mathematical model	819
D. A. LUKE	The development of mast cells in facial skin, palate and tongue of the mouse	827
G. T. CLARK, M. C. CARTER and P. L. BEEMSTERBOER	Analysis of electromyographic signals in human jaw closing muscles at various isometric force levels	833
T. R. KATONA, VIRGINIA M. TACKNEY and J. K. KEATES	A computer model of the periodontal ligament space in man	839
Short Communications		
S. KASHKET and V. J. PAOLINO	Inhibition of salivary amylase by water-soluble extracts of tea	845
K. K. MÄKINEN, K. K. VIRTANEN, P.-L. MÄKINEN and J. KOTIRANTA	Free amino acids in human palatine gland secretions	847
TOSHIFUMI KUMAI	Lissajous figures of differential electromyograms of the paired temporal and paired masseter muscles in human mastication	851

NUMBER 12

A. D. GILBERT and J. A. SOFAER	Host genotype, pathogenic challenge and periodontal bone loss in the mouse	855
S. W. CADDEN and J. P. NEWTON	A comparison of reflex depressions of activity in jaw-closing muscles evoked by intra- and peri-oral stimuli in man	863
J. A. WEATHERELL, M. S. DUGGAL, C. ROBINSON and M. E. J. CURZON	Site-specific differences in human dental plaque pH after sucrose rinsing	871
J. C. HASE and D. BIRKHED	Salivary glucose clearance, dry mouth and pH changes in dental plaque in man	875
V. SHAKESPEARE, P. G. SHAKESPEARE and B. T. EVANS	Effects of proprietary oral rinses containing chlorhexidine, hexetidine and benzydamine on the proliferation of human buccal epithelial cells in culture	881
S. KASUGAI, M. ADACHI and H. OGURA	Establishment and characterization of a clonal cell line (RPC C2A) from dental pulp of the rat incisor	887
M. TAKIGAWA, T. TAKANO, K. NAKAGAWA, M. SAKUDA and F. SUZUKI	Hydrocortisone stimulation of proliferation and glycosaminoglycan synthesis in rabbit craniofacial chondrocytes <i>in vitro</i>	893
J. K. MCKEE and S. MOLNAR	Mathematical and descriptive classification of variations in dental arch shape in an Australian aborigine population	901
K. S. LAST, C. DONKIN and G. EMBERY	Glycosaminoglycans in human gingival crevicular fluid during orthodontic movement	907
MERJA LAINE, J. TENOVUO, O.-P. LEHTONEN, ANITA OJANOTKO-HARRI, P. VILJA and P. TUOHIMAA	Pregnancy-related changes in human whole saliva	913
B. J. MOXHAM and B. K. B. BERKOVITZ	Continuous monitoring of the movements of erupting and newly erupted teeth of limited growth (ferret mandibular canines) and their responses to hexamethonium	919

